

KPCCA Data Project Requirements Documentation  
End User Interface  
Technical Specifications  
7/12/2006

ID #	Title	Requirement	Ingress Alignment
1	Functionality	The system shall accept input via a computerized form, transform the input into data queries appropriate to target data sources, transmit those queries to the appropriate data sources, accept returns from those data sources, and present those returns, along with other information, to the user who requested the information.	v2
2	Typical queries	Typical queries expected of the system include, but are not limited to: person name, date of birth, physical descriptors, Social Security number; history of events at an address; vehicle registrations, license tab status (currency and stolen), vehicle status, descriptors, Vehicle Identification Number (VIN). Other queries will be developed during the detailed design phase.	v2 (Vehicle information dependent upon DOL services)
3	Existing laptops	The product of this project shall work with laptop computers found in police patrol vehicles today.	v2 Beta
4	Users served	The system shall not impose limits on the number of concurrent or total users.	v2 Beta
5	Required video resolutions	The application shall operate at common resolutions from 800x600 to 1024x768 with a minimum 16-bit color capability.	v2
6	512 Megabyte of RAM	The end user interface shall operate within a shared 512 Megabyte RAM environment with other, typically running applications.	v2 Beta
7	Multiple resolutions without scrolling	The application shall display the same information when operating at 800x600 resolution and 1024x768 without manipulation of screen elements such as scroll bars being required. Transition between these two modes shall not require restarting the application.	Dependent on user customization
8	Wireless bandwidth sensitive data streams	This product shall provide data streams scalable by the user agency to accommodate differing levels of wireless bandwidth.	v2 Beta
9	System security	The system shall be accessible only by properly credentialed and validated users.	v2 Beta
10	AAA	The system shall use an authentication, auditing and accountability system approved by the system owner.	v2 Beta
11	Use existing data sources	The system should not require additional interface development or installation to be done on the data source. The system may interface to a published API, appear as a standard user on the data source, use existing data source interfaces (such as web service).	v2 Beta
12	Required data sources	The system shall interface with the following systems: WSP ACCESS RAIN JILS JEMS (Mug Shots) DISCIS SCOMIS Each agency RMS SEA KING LinX MAPS JBRIS Each agency CAD historical data Internet based mapping service (by transaction only) Internet based telephone directory (DEXonline, anywho, whowhere) transaction	<u>All answers for v2 Beta</u> Yes (via JINDEX) Yes (link; search integration TBD) Yes Yes (via JILS) Yes (via JINDEX) Yes (via JINDEX) Yes (link; search integration TBD) Yes (via JILS) Yes (link; search integration TBD) no Yes (link; search integration TBD) no no no
13	GJXML	The product shall interface with existing data sources through the latest release of Global Justice XML wherever possible.	v2 Beta
14	Exposed XML tags	The product shall expose its XML tags, attributes and parsing to owner administrators on request	{no}
15	Not modal	The system shall operate in a non-modal way relative to other applications running on the same computer.	v2 Beta
16	Relevancy weighting	The system shall assign a relevancy score to each return and display that score with a return summary visible to the user	v2
17	Alerts on text strings	The system shall provide visual and audible alerts to the user when system-administrator-defined text strings are located in a data return	{no}
18	Persistence across machine state	The system shall not require a reboot or restart when recovering from a "standby," "Sleep," or "hibernate" condition	No (system times out for security purposes)
19	Persistent across power save	The system shall not require a reboot or restart when recovering from hardware power use reduction strategies such as monitor power off, hard drive power off, or network interface card sleep.	No (system times out for security purposes)
20	Data fields cleared explicitly	The system shall retain data elements in each data field until explicitly cleared by the user, either in each field individually or by a "Clear All" function. This function shall be configurable (turned on or off) by the end user in the field.	{no}
21	User profiles	The system shall restore each individual user's preferred screen layout, colors, and other local parameters upon login by the user.	v2

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22	Data validation	The system shall provide for validating input for data type (i.e. numeric versus alphanumeric), entry length, and format (i.e. telephone number). The use of field masks is acceptable. Validation shall occur prior to submission of the query.	v2
23	System wide abbreviations option	The system shall maintain a single source of commonly used abbreviations and codes for use in pull down lists and other references. Use of the list shall be at the system administrator's option.	{no}
24	Local abbreviations option	The system shall support maintenance of lists of abbreviations and codes unique to each agency or set of users.	{no}
25	Wild card translations	The system shall accept the asterisk character (*) as a wildcard in all queries. The system shall translate that wild card into whatever wild card is appropriate for the system(s) being accessed.	v2
26	No additional login	The system shall not require the user to provide a log in and/or password to gain access once the user has been validated by his or her own agency's log in	No (single signon to Ingress for other aps)
27	Existing interfaces	The system shall accept input from other programs without the need for operator intervention. For example, data streams collected by "swiping" bar-coded driver's licenses will be presented to the system for processing as if that data had been typed in by the officer.	{no}
28	Data Service	The product shall be able to be exposed as a data service (for example, an API or Web Service)	{no}
29	Extensible	The system administrator or other person skilled in GJXML shall be able to add queries to the system and make such queries available on the end user interface to one or more groups of users.	Partial - v2 Beta (adding links and feeds from other sources)
30	No record responses	The system shall forward "no record" messages received from data sources to the user.	v2
31	Data source status messages	The system shall forward data source status messages such as "System timed out" to the user when received from the data source.	v2
32	Query timeout messages	The system shall generate and send a "query timed out" message to the user after a system-administrator-defined time threshold is passed without a response from a requested data source. The system shall allow different thresholds to be set for each data source	v2
33	100% match	The system shall highlight with visual clues such as color, size or typeface of font, when a return matches the submitted query information at a 100% accuracy level.	v2
34	"No exact match"	The system shall be capable of highlighting "No exact match" text received from WSP ACCESS data sources by use of color, size and/or typeface of font. The system shall also be capable of highlighting non-exact matches from other data sources either using a source-provided flag or by generating a relevancy score itself, and highlighting the return accordingly.	v2
35	Unique number	The system shall contain a counter assigning a unique tracking number to each return received.	TBD
36	Overflow counter	The system shall contain the capability to limit the number of returns displayed to a laptop. This shall be by means of a counter, the threshold of which shall be controllable by the system administrator.	v2
37	Overflow warning	When there are more returns than the current setting of the overflow counter, the system shall present a specified number of responses to the laptop. The system shall also present an indicator to the end user that more returns are pending.	v2
38	Overflow acceptance	The system shall allow users to accept additional responses in an "overflow" condition as outlined in this document. The system shall also allow the user to bypass the pending returns, and such action shall clear pending messages from the system buffer. The audit trail shall note this event.	v2
39	Encryption and security measures	The system shall maintain the security requirements, including encryption where required, of the data sources during all phases of operation, including transport to and from the end user in the field. Adherence to standards such as Federal Information Processing Standards (FIPS) is, if required by the data source, also required of DIGS.	v2 Beta